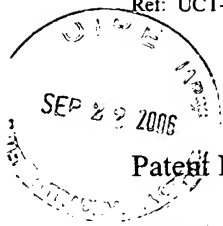


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Ref: UCT-0062



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 7,091,297 B2

Issued: August 15, 2006

Name of Patentee: Mather et al.

Title of Invention: Shape Memory Polymers Based On Semicrystalline Thermoplastic Polyurethanes Bearing Nanostructured Hard Segments

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR APPLICANTS' MISTAKE (37 C.F.R. 1.323)**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450ATTENTION: Decision and Certificate of Correction
Branch of the Patent Issue Division**Certificate**
SEP 26 2006
of Correction

Sirs:

It is noted that an error appears in this patent of a typographical nature or character, as more fully described below. In reviewing the drawings of the issued patent, it was noted that the formal drawings filed on February 18, 2004, were not the correct formal drawings. It occurred in good faith. Correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination. A certificate of correction is requested.

Attached hereto, in duplicate, is Form PTO-1050, with at least one copy being

I certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on	
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Maria M. Thomson (Name of Person Mailing Paper)	
Maria M. Thomson Signature	9/19/06 Date

SEP 27 2006

suitable for printing.

The error is in the body of the patent in: In The Drawings; column 3, line 14, line 15, and line 38; and column 7, line 46.

Please send the Certificate of Correction to:

Cantor Colburn LLP
55 Griffin Road South
Bloomfield, Connecticut 06002

Please charge the amount of \$100.00, as required by 37 C.F.R. 1.20(a) or any additional charges with respect to this request or otherwise, to Deposit Account No. 06-1130 maintained by Patentees' attorneys.

Respectfully submitted,

CANTOR COLBURN LLP

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Date: September 15, 2006

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,091,297 B2

Page 1 of 1

DATED : August 15, 2006

INVENTOR(S): Mather et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In The Drawings: delete Figures 1-5 and substitute therefor attached Figures 1-4

Column 3: Line 14 and 15, after "a" delete "dilisocyante" and insert therefor --diisocyanate--
Line 38, before "(MDI)" delete "dilsocyanate" and insert therefor --diisocyanate--

Column 7: Line 46, after "Aqueous" delete "Theological" and insert therefor --rheological--

MAILING ADDRESS OF SENDER:

PATENT NO. 7,091,297 B2

Cantor Colburn LLP
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Bloomfield, CT 06002

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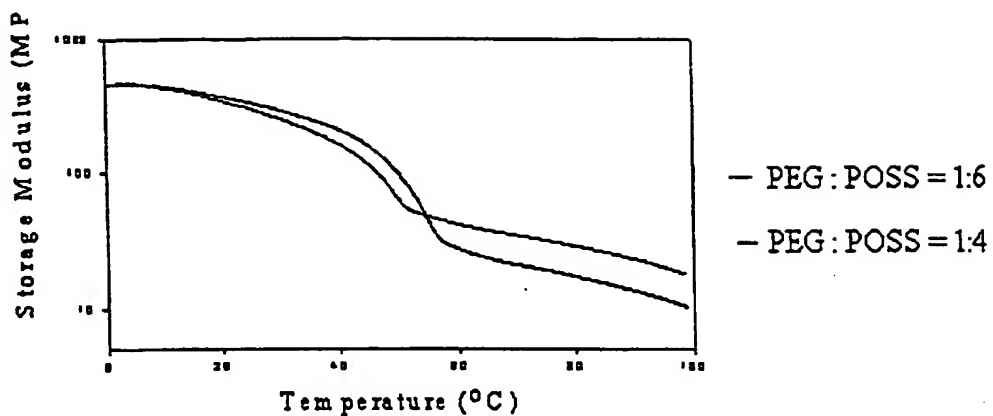
This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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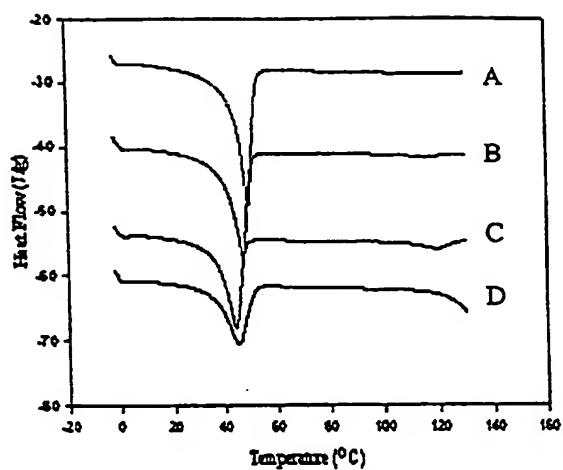
Figure 1.



DMA plots of the TMP POSS based TPU, with mole ratio of PEG : POSS as 1:6, 1:4 respectively. A transition temperature around 45-47°C was observed. A typical plateau corresponding to physically crosslinked polymers was observed also.

Figure 2.

- A PEG : POSS = 1:3
- B PEG : POSS = 1:4
- C PEG : POSS = 1:6
- D PEG : POSS = 1:8



DSC results of TMP POSS based TPU with different PEG : POSS mole ratio. Two melting peaks can be observed indicating the microphase separation between the soft and hard segment.

Figure 3.

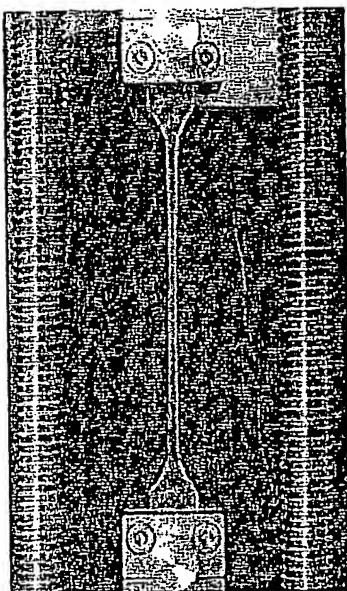
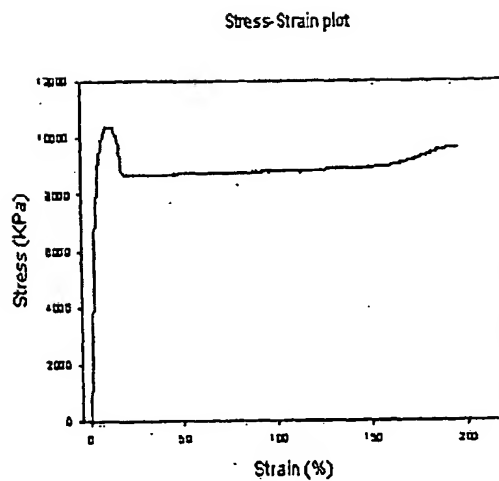


Figure 4.



Stress-strain experiment of the TMP POSS based TPU (PEG : POSS = 1:6) according to ASTM standard. A dumbbell shaped sample having the length of the narrow part as 9.42 mm, distance between grips as 25.5 mm and thickness as 0.355 mm was stretched at room temperature, 1 mm/min.

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